SHURE®

ULX™

WIRELESS MICROPHONE SYSTEMS

- Ultra-Wide Band Frequency Agile UHF Systems
- Auto Frequency Selection
- Reliable, Professional Sound Quality
- Multi-Channel Operation

UHF

ULX™

WIRELESS MICROPHONE SYSTEMS

ULX Standard Systems

Ideal for regional and touring performers who:

- perform regularly on stage and need rugged-reliable gear
- perform in different cities or crowded RF environments
- want quick set-up before gigs
- want the security of less signal interference and dropouts
- work in bands or settings with multiple wireless system users
- want the familiarity and audio quality of legendary Shure wired microphones

ULX Standard Receiver

ULXS4

ULX Professional Systems

with advanced controls and displays

Ideal for professional sound installers who:

- need an affordable UHF solution for small to medium installations
- are located in crowded RF environments
- require programmable and lockable front panel settings for multi-user settings and protection against accidental changes
- rely on advanced LCDs that convey volume, frequency and battery status
- desire durable, metal chassis, rack-mounted systems
- want the familiarity and audio quality of legendary Shure wired microphones

ULX Professional Receiver

ULXP4

ULX Standard Receiver

Automatic Frequency Selection
Scans for open channels, and allows for fast setup.

Multi-channel Flexibility
Ultra-wide UHF band agility operates across multiple TV channels for clear operation anywhere.

Consistent Reception
Shure Microprocessor Controlled Predictive Diversity anticipates and avoids sound dropouts.

Multi-system Operation
Up to 20 simultaneously compatible systems, depending on location.

Multi-function LCD Display
Indicates group and channel setting, current UHF TV channel (US models only) and remaining transmitter battery power.

LED indicators
Confirm RF reception and level, as well as transmitter audio level.

Detachable 1/4-wave antennas
Allows for front mount capability.

Durable construction
1/2-rack durable plastic chassis.

ULX Professional Receiver

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Multi-system Operation
Up to 20 simultaneously compatible systems, depending on location.

Multi-function LCD Display
Indicates group and channel setting, current UHF TV channel (US models only) and remaining transmitter battery power.

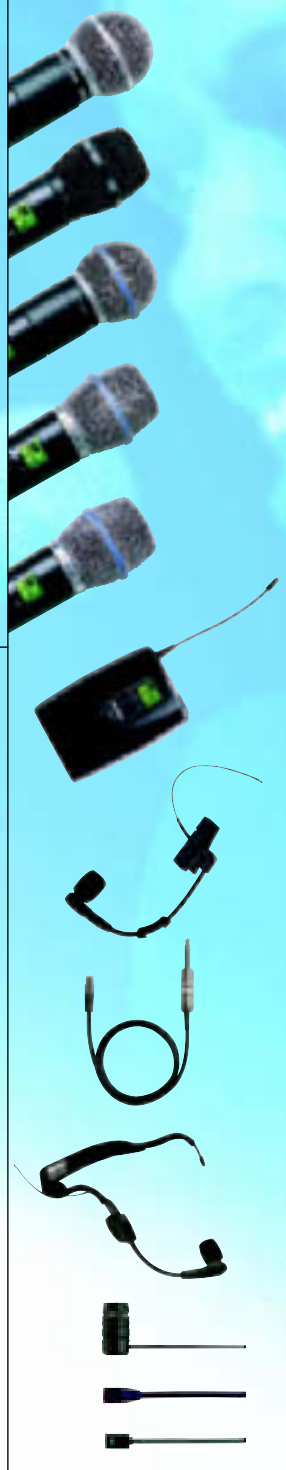
Lockout settings
Frequency and volume lockout protect from accidental setting changes.

Advanced controls
Easy to use LCD interface and front panel controls.

LED indicators
Confirm RF reception and level, as well as transmitter audio level.

Remotable 1/2-wave antennas
Allows for optimum antenna placement to enhance signal reception.

Rugged construction
1/2-rack rugged metal chassis with rack mount hardware included.



Transmitter Features

Backlit LCD display
Indicates group, channel setting and battery power level.

Long battery life
Provides extended 8-hour battery life with a single 9V battery.

Operating range
Transmits up to 92m (300ft) under normal conditions. Varies by location based on RF signal absorption, reflection, and environment.

Handheld Microphone Transmitters

SM58® *Cardioid dynamic microphone*
The legendary choice of vocal performers around the globe.

SM87 *Supercardioid condenser microphone*
Smooth sound tailored for warm, rich vocal reproduction.

Beta 58A® *Supercardioid dynamic microphone*
Preferred by touring vocalists and sound professionals.

Beta 87A™ *Supercardioid condenser microphone*
Brings studio-quality sound to live vocals.

Beta 87C™ *Cardioid condenser microphone*
Adds warmth to the frequency response, preferred by in-ear monitor users.

Bodypack Transmitter

Transmitters for use with headworn, lavalier and instrument microphones and cables.
Attaches to belt, waistband or guitar strap with clip for hands-free mobility.

Instrument Microphones and Guitar Cables

Beta 98H/C™ *Cardioid condenser clip-on microphone*
A miniature microphone with flexible gooseneck for versatile, secure positioning on horns.

WA302 *1/4" - Mini 4-pin connector instrument cable*
Links a Bodypack Transmitter to a guitar or bass guitar.

Headworn and Lavalier Microphones

WCM16 *Hypercardioid condenser headworn microphone*

WH30 *Cardioid condenser headworn microphone*

WL183 *Omnidirectional lavalier microphone*

WL184 *Supercardioid lavalier microphone*

WL185 *Cardioid lavalier microphone*

WL50 *Professional Subminiature Omnidirectional lavalier microphone*

WL51 *Professional Subminiature Cardioid lavalier microphone*

WL93 *Omnidirectional lavalier microphone*

SYSTEM CONFIGURATIONS

ULX Standard Receiver

Vocals

Handheld Microphone

SM58® ULXS24/58
SM87 ULXS24/87
Beta 58A® ULXS24/BETA58
Beta 87A™ ULXS24/BETA87A

Lavalier Microphone
with Bodypack Transmitter

WL183 ULXS14/83
WL184 ULXS14/84
WL185 ULXS14/85
WL93 ULXS14/93

Headworn Microphone
with Bodypack Transmitter

WH30 ULXS14/30

Instruments

Instrument Microphone
with Bodypack Transmitter

Beta 98H/C™ ULXS14/98H

Guitar/Bass Cable
with Bodypack Transmitter

WA302 ULXS14

Combo

Systems with two (2) Transmitters and one (1) Receiver

Handheld/Lavalier Combo

SM58®/WL185 ULXS124/85

ULX Professional Receiver

Vocals

Handheld Microphone

SM58® ULXP24/58
SM87 ULXP24/87
Beta 58A® ULXP24/BETA58
Beta 87A™ ULXP24/BETA87A
Beta 87C™ ULXP24/BETA87C

Lavalier Microphone
with Bodypack Transmitter

WL50 ULXP14/50
WL51 ULXP14/51
WL183 ULXP14/83
WL184 ULXP14/84
WL185 ULXP14/85

Headworn Microphone
with Bodypack Transmitter

WCM16 ULXP14/16
WH30 ULXP14/30

Instruments

Instrument Microphone
with Bodypack Transmitter

Beta 98H/C™ ULXP14/98H

Guitar/Bass Cable
with Bodypack Transmitter

WA302 ULXP14

Combo

Systems with two (2) Transmitters and one (1) Receiver

Handheld/Lavalier Combo

SM58®/WL185 ULXP124/85

Dual Systems

Systems with two (2) Transmitters and two (2) Receivers

Handheld Microphones

(2) **SM58®** ULXP24D/58
(2) **SM87** ULXP24D/87
(2) **Beta 58A®** ULXP24D/BETA58
(2) **Beta 87A™** ULXP24D/BETA87A
(2) **Beta 87C™** ULXP24D/BETA87C

Guitar/Bass Cable
with Bodypack Transmitter

(2) **WA302** ULXP14D

Systems with one (1) Handheld, one (1) Bodypack Transmitter and two (2) Receivers

Handheld/Bodypack Combo

SM58® ULXP124/58
SM87 ULXP124/87
Beta 58A® ULXP124/BETA58
Beta 87A™ ULXP124/BETA87A
Beta 87C™ ULXP124/BETA87C

Optional Accessories

UA220
Passive Antenna Splitter

UA505
Remote Antenna Bracket and BNC Adapter

UA506
Rack Mount Kit for one ULX Receiver

UA507
Rack Mount Kit for two ULX Receivers

UA600
Front Mount Antenna Cable Kit

WA610
Universal Hard Carrying Case

UA830WB
UHF Wideband Active Remote Antenna Amplifier

UA844
Antenna/Power Distribution System

UA870WB
UHF Wideband Active Directional Antenna

ULX™

ULX Wireless.

Remarkable new mic systems that move.

Affordable solutions that equip legendary Shure microphones for wireless performance, ULX Standard and Professional systems put frequency agile UHF in reach for both performers and sound professionals.

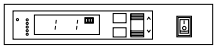
The straight shot to a clear channel.
Wireless traffic jamming your transmission? Frequency agile ULX Wireless Systems with Automatic Frequency Selection find the open frequencies and take you there. Instantly.

Hear me.
Clear channels and strong transmission free you to concentrate on what matters most – your sound. ULX systems offer a choice of over 30 Shure mic configurations for any wireless situation, including the legendary SM58® and Beta Series microphones.

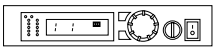
Effortless Wireless.
ULX is wireless the way it should be. Simple. Agile. Bulletproof.
It's gear without fear. Loud and clear.

SPECIFICATIONS

ULXS4 Standard Diversity Receiver



ULXP4 Professional Diversity Receiver



RF Carrier Frequency Range	554-865 MHz (available frequencies depend on applicable county regulations)
Working Range	92 m (300 ft) under typical conditions (NOTE: Operating range depends on many variables, including RF signal absorption, reflection and interference)
Audio Frequency Range	50-15,000 Hz, ±2 dB (NOTE: Overall system frequency response depends on microphone element)
Audio Output Level (ref. ±38 kHz deviation, 1 kHz tone)	XLR connector (into 600Ω load): +8 dBV (line); -10 dBV (mic) 1/4-inch connector (into 3kΩload): +2 dBV
Impedance	ULXS4 and ULXP4 (output): 3kΩ(1/4-inch phone jack) 20kΩ(XLR Line) 500Ω(XLR Mic)
Modulation	±38 kHz deviation compressor-expander system with pre- and de-emphasis
Dynamic Range	>105 dB, A-weighted
RF Sensitivity	1.26 mV for 12 dB SINAD (typical)
Image Rejection	65 dB typical
Spurious Rejection	75 dB typical
System Distortion (ref. ±15 kHz deviation, 1 kHz modulation)	0.3% (<1%) THD typical
Power Requirements	ULXS4 and ULXP4: 14-18 Vdc (negative ground), 550 mA; external ac adapter supplied
Operating Temperature Range	-20°to 50°C (-4°to 122°F) (NOTE: Battery characteristics may limit this range)
Overall Dimensions	ULXS4: 41 mm H x 219 mm W x 152 mm D (1 5/8 x 8 5/8 x 6 in.) ULXP4: 44 mm H x 219 mm W x 154 mm D (1 3/4 x 8 5/8 x 6 1/16 in.)
Net Weight	ULXS4: 0.6 kg (1 lbs 4 oz) ULXP4: 1.02 kg (2 lbs 4 oz)

ULX1 Bodypack Transmitter

Gain Adjustment Range	40 dB (continuously adjustable)
Impedance	input: 1 MΩ
RF Power Output	30 mW maximum (dependent on applicable country regulations)
Power Requirements	9 V alkaline battery (DURACELL® MN1604 recommended); 8.4 V Nicad optional
Battery Life	At least 8 hours
Overall Dimensions	95.2 mm H x 63.5 mm W x 33.3 mm D (3 3/16 x 2 5/8 x 1 1/16 in.)
Net Weight (without battery)	90.7 g (3.2 oz)

ULX2 Handheld Transmitter

Gain Adjustment Range	25 dB (continuously adjustable)
RF Power Output	30 mW maximum (dependent on applicable country regulations)
Power Requirements	9 V alkaline battery (DURACELL® MN1604 recommended); 8.4 V Nicad optional
Battery Life	At least 8 hours
Overall Dimensions	ULX2/58, ULX2/BETA 58: 241 mm L x 50.8 mm Dia. (9 1/2 x 2 in.) ULX2/87, ULX2/BETA 87: 216 mm L x 50.8 mm Dia. (8 1/2 x 2 in.)
Net Weight (without battery)	ULX2/58, ULX2/BETA 58: 298 g (10.4 oz) ULX2/87, ULX2/BETA 87: 195 g (6.8 oz)

SHURE®
It's Your Sound™

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